2-688-578-**13**(1) SONY

## Micro HI-FI **Component System**

**Operating Instructions** 





### WARNING

# To reduce the risk of fire or electric shock,

To reduce the risk of fire, do not cover the ventilation of the apparatus with newspapers, tablecloths, curtains, etc.

To reduce the risk of fire or electric shock, do not place

main plug from the AC outlet immediately. Do not install the appliance in a confined space, such as a

Do not expose batteries or apparatus with batteryinstalled to excessive heat such as sunshine, fire or the





**Disposal of Old Electrical & Electronic** (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the

Applicable accessories: Remote commander

#### **Note on DualDiscs**

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

#### Music discs encoded with copyright protection technologies

This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

Power

Connect the power cord to a wall socket.

FM/DAB lead antenna

Find a location and an orientation that provide good reception, and then set up

Before unplugging the FM/DAB antenna, make sure the system is turned off to

Keep the antenna away from the speaker cords and the power cord to avoid

the antenna.

picking up noise.

preserve your own FM and DAB settings.

(Extend it horizontally.)

If the plug does not fit the wall socket, detach the supplied plug

adaptor (only for models equipped with an adaptor).

CMT-SPZ90DB

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# do not expose this apparatus to rain or

And do not place lighted candles on the apparatus.

objects filled with liquids, such as vases, on the apparatus. Connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the

bookcase or built-in cabinet.

Hooking up the system securely

1 Remove all discs to protect the CD mechanism.

**2** Press CD 4 on the remote to select the CD function.

3 Hold down PLAY MODE/TUNING MODE 22, and press

Speakers

When carrying this system

DISC 1 23 until "LOCK" appears.

**4** Unplug the power cord.

### **Except for customers in the U.S.A.** and Canada



This appliance is classified as a CLASS 1 LASER product. This marking s located on the rear exterior.

## **European model only**

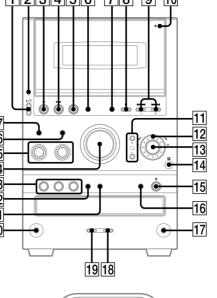
Excessive sound pressure from earphones and headphones can cause hearing loss.

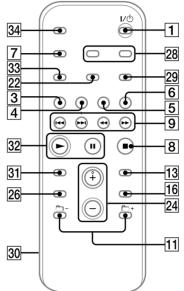
#### Notice for customers: the following information is only applicable to equipment sold in countries applying EU Directives

The manufacturer of this product is Sony Corporation, 1-7-1 Konan, Minato-ku, Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany.

For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

### **Basic Operations**

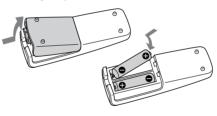




## Before using the system

#### To use the remote

insert the two supplied R6 (size AA) batteries, • side first, matching the polarities shown below.



- 1 Turn on the system.
- 2 Select the clock set mode.

Press CLOCK/TIMER SET 28 on the remote. If the current mode appears on the display, press ► / ► ► **9** on the remote repeatedly to select "CLOCK SET"

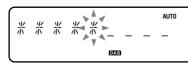
### 3 Set the time

Press  $| \blacktriangleleft | / \triangleright |$  9 on the remote repeatedly to set the hour, and then press ENTER 13 on the remote. Use the same procedure to set the minute. The clock settings are lost when you disconnect the power cord or if a power failure occurs.

When you turn on the system for the first time after you purchase the system, DAB Automatic Scan starts automatically and creates a list of available services. If you want to run the DAB Automatic Scan again, perform the procedure below.

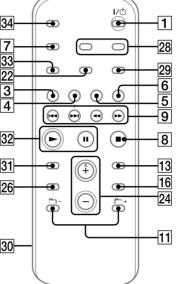
- 1 Press DAB AUTO SCAN 21 on the unit. "AUTO SCAN" and "PUSH ENTR" appear.
- 2 Press PUSH ENTER on the unit (or ENTER on the remote) 13.

by advancing asterisks. Depending on the DAB few minutes.



is created.

- If your country or region does not support DAB broadcast, "NO
- Do not press any button on the unit or the remote during DAB
- stations for your new area.



Slide and remove the battery compartment lid 30, and

### Notes on using the remote

- With normal use, the batteries should last for about six months.
- . Do not mix an old battery with a new one or mix different types of
- If you do not use the remote for a long period of time, remove the batteries to avoid damage from battery leakage and corrosion

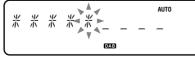
#### To set the clock

- Press I/( (power) 1.

and then press ENTER 13 on the remote.

#### To run the DAB Automatic Scan

Scanning begins. The scanning progress is indicated services available in your area, scanning may take a



When scanning is complete, a list of available services

- SERV" appears.
- Automatic Scan. Scanning is interrupted and service list may not be created properly. In this case, run the DAB Automatic Scan again. • If you move to another area, repeat this procedure to store the

- · Before unplugging the DAB antenna, make sure the system is turned
- off to preserve your own DAB settings. • This tuner does not support data services.

### Selecting a music source

· This procedure clears all previously stored presets.

Press the following buttons (or press FUNCTION 6

To select	Press
CD	CD 4 on the remote.
Tuner	TUNER/BAND 5.
Tape	TAPE 3 on the remote.
Component (connected using an audio cord)	FUNCTION 6 repeatedly until "AUDIO IN" appears.

## Adjusting the sound

#### To adjust the volume

Press VOLUME +/- on the remote (or turn the VOLUME control on the unit) 24.

#### To add a sound effect

То	Press
Generate a more dynamic sound (Dynamic Sound Generator X-tra)	DSGX 27 on the unit.
Set the sound effect	EQ 26 repeatedly to select "BASS" or "TREBLE," and then press +/- 9 on the remote (or EQ LEVEL +/- 25 on the unit) repeatedly to adjust the level.

## Playing a CD/MP3 disc 1 Select the CD function.

- Press CD 4 on the remote.
- 2 Place a disc.

Press  $\triangleq$  (CD open/close) 15 on the unit, and place a disc with the label side up on the disc tray.



To insert additional discs, slide the disc tray with your finger as shown below.



To close the disc tray, press  $\triangleq$  (CD open/close) 15 on

the unit again Do not force the disc tray closed with your finger, as

this may damage the unit.

pause) 4 on the unit).

3 Start playback. Press ► (play) 32 on the remote (or CD/►II (play/

То	Press	
Pause playback	II (pause) 32 on the remote (or CD/►II (play/pause) 4 on the unit). To resume play, press the button again.	
Stop playback	■ (stop) <b>8</b> .	
Select a folder on an MP3 disc	+/- (select folder) 11. Or turn the jog dial 12 on the unit and press PUSH ENTER 13 on the unit (turn the jog dial 12 on the unit during playback until "FOLDER" appears, and then press PUSH ENTER 13 on the unit to select the desired folder).	
Select a track or file		

#### CANCEL **8** on the unit. Hold down ◀◀/▶▶ (rewind/ Find a point in a fast forward) 9 during playback, track or file and release the button at the desired point. Select Repeat Play REPEAT 29 on the remote repeatedly until "REP" or "REP1" appears. Select a disc Press DISC SKIP 16 on the remote (or DISC 1 – 3 23 or DISC SKIP 16 (in stop mode) on

the unit).

Exchange other discs Press EX-CHANGE 16 on the

Switch to CD Press DISC 1 – 3 23 on the unit function from (Automatic Source Selection). another source

while playing

#### To change the play mode

Press PLAY MODE 22 repeatedly while the player is stopped. You can select normal play ("ALL DISCS" for all discs, "1DISC" for a disc, or "at " for all MP3 files in the folder on the disc), shuffle play ("ALL DISCS SHUF," "1DISC SHUF," or " SHUF\*"), or program play ("PGM").

\* When playing a CD-DA disc, (SHUF) Play performs the same operation as 1DISC (SHUF) Plays

### Note on the jog dial

Only the first 6 characters are displayed when performing the folder search, track search, or file search.

Notes on Repeat Play • All tracks or files on a disc are played repeatedly up to five times.

• You cannot select "REP" and "ALL DISCS SHUF" at the same time • "REP 1" indicates that a single track or file is repeated until you stop

#### Notes on playing MP3 discs

 Do not save other has MP3 files. types of files or unnecessary folders on a disc that

- Folders that have no MP3 files are skipped. MP3 files are played back in the order that they are recorded onto
- The system can only play MP3 files that have a file extension of
- If there are files on the disc that have the "MP3" file extension.
- but that are not MP3 files, the unit may produce noise or may
- The maximum number of
- folders is 255 (including the root folder). MP3 files is 511.

Notes on playing multisession discs

Listening to the radio

Press TUNER/BAND 5 repeatedly.

1 Select "DAB" or "FM."

**2** Select the tuning mode.

appears on the display.

Press ■ (stop) 8.

band only)

system").

appears.

- MP3 files and folders that can be contained on a single disc is 512. - folder levels (the tree structure of files) is 8.

a CD-DA (or MP3) disc, and other sessions are not played back.

• A disc with a mixed CD format is recognized as a CD-DA (audio)

Before you can receive DAB, you must complete the

DAB Automatic Scan procedure (see "Before using the

Press TUNING MODE 22 repeatedly until "AUTO"

is tuned in, and then "TUNED" (DAB only) and

RDS services, the service name or station name

To stop automatic scanning (FM band only)

To tune in a station with a weak signal (FM

If the scanning does not stop, press TUNING MODE 22

repeatedly until "AUTO" and "PRESET" disappear, and

then press +/- on the remote (or TUNING +/- on the

 $\bullet$  When tuning in a DAB station, it may take a few seconds before you

• Primary service is automatically received when secondary service

Press ♠ PUSH OPEN/CLOSE 10 on the unit, and

holder with the side you want to play facing forward.

damaging the tape or the tape deck. Press PUSH

OPEN/CLOSE 10 on the unit again to close the

Press ► (play) 32 on the remote (or TAPE/►■

button again.

■ (stop) 8.

II (pause) 32 on the remote (or

TAPE/►Ⅱ (play/pause) 3 on the unit). To resume play, press the

✓✓/►► (rewind/fast forward) 9.

insert the TYPE I (normal) tape into the cassette

Make sure there is no slack in the tape to avoid

unit) 9 repeatedly to tune in the desired station.

Notes on listening to DAB stations

Playing a tape

2 Insert a tape.

cassette holder.

**3** Start playback.

Pause playback

Stop playback

Rewind or fast

**1** Select the tape function.

Press TAPE **3** on the remote.

(play/pause) 3 on the unit).

"STEREO" (for stereo programs) appear. When you

tune in a DAB station or an FM station that provides

total playing time for a CD-DA disc depending on the play mode. • Compatibility with all MP3 encoding/writing software, recording - total playing time for an MP3 disc. device, and recording media cannot be guaranteed. Incompatible - remaining playing time for an MP3 file MP3 discs may produce noise or interrupted audio or may not play

### The following are not displayed correctly:

- elapsed playing time of an MP3 file encoded using a VBR (variable - folder and file names that do not follow either the ISO9660 Level • If the disc begins with a CD-DA (or MP3) session, it is recognized as

1, Level 2 or Joliet in the expansion format.

- changing the CD power manage function.

Notes on the display information

The following are not displayed;

Changing the display

DISPLAY 7 repeatedly when the

DISPLAY 7 repeatedly when the

system is on.

system is off.

- CD/MP3 disc information such as the track or file number, folder

name (during normal play), or the total play time (while the player

- DAB station information such as the service name, channel label,

When the system is off,13

The display is turned off to conserve

power. The timer and clock continue

The clock is displayed.

preset number, frequency, DLS (Dynamic Label Segment), or

The system offers the following display modes.

to operate.

1) The STANDBY indicator lights up when the system is off.

2) When the system is in Power Saving Mode, the following function

To change

the display\*

Display mode

Display mode

Power Saving

are unavailable

setting the clock.

Clock

Mode<sup>2)</sup>

(See below.)

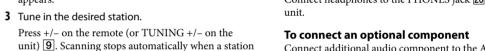
Information on

- The following are displayed; - ID3 tag information for MP3 files when ID3 version 1 and version
- 2 tags are used. up to 62 characters of ID3 tag information using uppercase letters (A to Z), numbers (0 to 9), and symbols (" \$ % '( ) \*+ , - . / <= >
- @[\]\_`{|}!?^). - up to 8 characters of service name, up to 128 characters of DLS
- (Dynamic Label Segment) and up to 16 characters of ensemble label using uppercase letters (A to Z), numbers (0 to 9), and symbols (" \$ %' () \* + , - . / < = > @ [ \ ] \_ ` { | } ! ? ^

## Using optional audio components

To connect an optional headphones Connect headphones to the PHONES jack 20 on the

Connect additional audio component to the AUDIO IN jack 17 on the unit using an audio analog cord (not supplied). Turn down the volume on the system, and



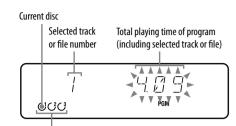
then press FUNCTION 6 repeatedly to select the AUDIO IN function.

#### Creating your own CD program (Program Play)

Use buttons on the remote to create your own program. 1 Press CD 4 to select the CD function.

- 2 Press PLAY MODE 22 repeatedly until "PGM" appears while the player is stopped.
- **3** Press DISC SKIP 16 to select a disc.
- track number appears.

When programing MP3 files, press = +/- (select folder) 11 repeatedly to select the desired folder, and then select the desired file.



Loaded disc

5 Press ENTER 13 to add the track or file to the

"- -.- -" appears when the total time exceeds 100 minutes for a disc, or when you select a CD track whose number is 21 or over, or when you select an MP3 file.

- **6** Repeat steps 3 through 5 to program additional tracks or files, up to a total of 25 tracks or files.
- 7 To play your program of tracks or files, press ►

The program remains available until you open the disc tray. To play the same program again, select the CD function, and press (play) 32.

#### To cancel Program Play

Press PLAY MODE 22 repeatedly until "PGM" disappears while the player is stopped.

To delete the last track or file of the program Press CLEAR 31 while the player is stopped.

#### To view program information, such as total track number of the program

Press DISPLAY 7 repeatedly.

You can also use the jog dial 12 on the unit to select files in step 4. Turn the jog dial 12 and press PUSH ENTER 13 on the unit to select the desired folder, and then select the desired file

#### Presetting radio stations

You can preset your favorite radio stations and tune them in instantly by selecting the corresponding preset

Use buttons on the remote to preset stations.

- 1 Tune in the desired station (see "Listening to the
- 2 Press TUNER MEMORY 33.

stations.

4 Press ENTER 13.



**5** Repeat steps 1 through 4 to store other stations.

**6** To call up a preset radio station, press TUNING

service name (DAB) or preset number (FM).

Note on presetting DAB stations

You can preset up to 20 DAB and 20 FM stations. The

ect the power cord or it a power failure

preset stations are retained for about half a day even

MODE 22 repeatedly until "PRESET" appears, and

then press  $\pm -9$  repeatedly to select the desired

3 Press +/- 9 repeatedly to select your desired preset "AUTO," the system automatically turns off after the current disc or tape stops or in 100 minutes. If another station is already assigned to the selected Do not select "AUTO" during Synchro Recording of a preset number, the station is replaced by the new

You can wake up to CD, tape or tuner at a preset time.

You can record a preset radio station at a specified time. Use buttons on the remote to control the Play Timer and the Rec Timer. Make sure you have set the clock.

**1** Prepare the sound source.

For Play Timer:

+/- 24 to adjust the volume.

- 2 Press CLOCK/TIMER SET 28.
- or "REC SET" then press ENTER 13.

**4** Set the time to start playing or recording. Press ► 1 9 repeatedly to set the hour, and

The minute indication flashes. Use the procedure above to set the minute.

Recording onto a tape

You can record on a TYPE I (normal) tape in two ways:

**CD Synchro Recording:** You can record an entire CD onto a tape.

Manual Recording:

You can record just the portions you like from a sound source, including connected audio components.

Use buttons on the unit to control tape recording.

- 1 Load a recordable tape with the side you want to record facing forward.
- **2** Prepare the recording source.

For CD Synchro Recording: Press CD 4 on the remote to select the CD function. Load the disc you want to record.

Press DISC SKIP 16 to select a disc. When recording a folder from an MP3 disc, press PLAY MODE 22 repeatedly to select "," and then press +/- (select folder) 11 repeatedly to select the

desired folder. To record only your favorite CD tracks in your desired order, perform steps 2 through 6 of "Creating your own CD program."

For Manual Recording:

Select the desired source to record.

**3** Set the tape deck to stand by for recording.

For CD Synchro Recording: Press CD SYNCHRO 19.

Press ● PAUSE/START 18.

For Manual Recording:

4 Start recording.

While recording, you cannot listen to other sources.

For CD Synchro Recording: Press ● PAUSE/START [18]. When the recording is completed, the CD player and the tape deck stop automatically. If you are recording onto a tape and the tape reaches the end of the front side part-way through a track or file, "TURN TAPE" appears. Turn the tape over to the reverse side, re-insert it, and "PUSH REC" appears. And then press ● PAUSE/

For Manual Recording:

Press ● PAUSE/START 18, and then start playing the desired recording source.

If there is noise while recording from the tuner, reposition the appropriate antenna to reduce the

### To stop recording

To pause recording Press ● PAUSE/START 18.

• Recording stops if you change to a different function. • You cannot eject the disc during CD synchro Recording.

## **Using the Timers**

The system offers three timer functions. You cannot activate both the Play Timer and the Rec Timer at the same time. If you use either with the Sleep Timer, the Sleep Timer has priority

**Sleep Timer:** You can fall asleep to music. This function works even if the clock is not set. Press SLEEP 34 on the remote repeatedly. If you select

**Play Timer:** 

Prepare the sound source, and then press VOLUME

To start from a specific CD track or MP3 file, create your own CD program.

For Rec Timer:

Tune in the preset radio station.

- 3 Press ► Press Pre

"ON" appears, and the hour indication flashes.

then press ENTER 13

5 Use the same procedure as in step 4 to set the time to stop playing or recording.

**6** Select the sound source or prepare the tape.

For Play Timer:

Press | Press sound source appears, and then press ENTER 13. The display shows the timer settings.

For Rec Timer: Load a recordable tape. The display shows the timer

7 Press I/(¹) (power) 1 to turn off the system. The system turns on 15 seconds before the preset time.

If the system is on at the preset time, the Play Timer

and the Rec Timer will not play or record.

To activate or check the timer again Press CLOCK/TIMER SELECT 28, press ► 9 repeatedly until "PLAY SEL" or "REC SEL" appears, and then press ENTER 13.

#### To cancel the timer

Repeat the same procedure as above until "TIMER OFF" appears, and then press ENTER 13.

#### To change the setting Start over from step 1.

- The Play Timer setting remains as long as the setting is not canceled
- The volume is reduced to minimum during the Rec Timer. • The Rec Timer is canceled automatically after the Rec Timer ha

## **Troubleshooting**

- 1 Make sure the power cord and speaker cords are correctly and firmly connected
- 2 Find your problem in the checklist below, and take
- the indicated corrective action.

If the issue persists, contact your nearest Sony dealer.

#### If the STANDBY indicator flashes Immediately unplug the power cord, and check the following item.

- If your system has a voltage selector, is the voltage selector set to the correct voltage?
- Are you using only the supplied speakers? · Is anything blocking the ventilation holes on the rear of the system?
- After the STANDBY indicator 2 stops flashing, reconnect the power cord, and turn on the system. If the issue persists, contact your nearest Sony dealer.

### General

#### There is no sound.

• The specified station may have temporarily stopped broadcast.

## Sound comes from one channel, or the left and

- right volumes are unbalanced. • Place the speakers as symmetrically as possible
- Connect only the supplied speakers.

#### Severe hum or noise.

- Move the system away from sources of noise. Connect the system to a different wall socket.
- Install a noise filter (available separately) to the power

#### The remote does not function.

- Remove any obstacles between the remote and the remote sensor 14 on the unit, and position the unit away from fluorescent lights.
- Point the remote at the system's sensor.
- Move the remote closer to the system.

#### The STANDBY indicator 2 remains lit after unplugging the power cord.

• The STANDBY indicator 2 may not turn off immediately after unplugging the power cord. This is not a malfunction. The indicator will turn off after about 40 seconds.

## CD/MP3 player

### The sound skips, or the disc will not play.

- Wipe the disc clean, and replace it.
- Move the system to a location away from vibration (for example, on top of a stable stand).
- Move the speakers away from the system, or place them on separate stands. At high volume, speaker vibration may cause the sound to skip.

#### Play does not start from the first track. • Return to Normal Play by pressing PLAY MODE 22

repeatedly until both "PGM" and "SHUF" disappear.

## Starting playback takes more time than usual.

- The following discs take a longer time to start playback. - a disc recorded with a complicated tree structure.
- a disc recorded in multisession mode.
- a disc that has not been finalized (a disc to which data can be added).
- a disc that has many folders.

## Tune

Tape deck

## Severe hum or noise, or stations cannot be

- received. • Connect the antenna properly.
- Find a location and an orientation that provide good
- reception, and then set up the antenna again. • Keep the antenna away from the speaker cords and the power cord to avoid picking up noise.
- Do not place the antenna in front of the system.
- Turn off nearby electrical equipment

## "TUNED" does not appear in the display (DAB

Automatic Scan procedure (see "Before using the system"). • The current DAB service may not be available. Press +/- on the remote (or TUNING +/- on the unit)  $\boxed{9}$  to

Check all antenna connections, then perform the DAB.

select a different service. If you have moved to another area, some services/ frequencies may have changed and you may not be able to tune into your usual broadcast.

#### Perform the DAB Automatic Scan procedure to re-register the contents of broadcasts. (Performing this procedure clears all previously stored presets.)

• Clean the capstans and pinch rollers. Also, clean and demagnetize the tape heads. See "Precautions" for details.

The sound exhibits excessive wow or flutter or

#### To improve tuner reception

Turn off CD player power by using the CD power

management function. By default, CD power is turned on. You cannot change the setting in Power Saving Mode. Use buttons on the unit to turn off CD player power.

- 1 Press CD/►II (play/pause) 4 to select the CD
- 2 Press I/() (power) 1 to turn off the system.

"CD POWER" and "OFF" appear. With CD player power turned off, disc access time is increased. To

To reset the system to factory settings

If the system still does not operate properly, reset the

Use buttons on the unit to reset the unit to its factory

system to factory settings. You cannot reset the system to

1 Disconnect and reconnect the power cord, and then

2 Press PLAY MODE/TUNING MODE 22, DISPLAY 7

All user-configured settings, such as preset radio

**CANT LOCK:** The system cannot be locked after you

have done the procedure of "When carrying this

system." Turn the power off and then on again by

CD OVER: You have reached the end of the disc while

pressing ►► (fast forward) 9 during playback or

**COMPLETE:** The preset operation ended normally.

**LOCKED:** The disc tray does not open. Contact your

**NO DISC:** There is no disc in the player, or you have

NO PRESET (DAB only): There is no stored preset

**NO SERV (DAB only):** There is no supported DAB

**NO TAB:** You cannot record because the overwrite

protection tab has been removed from the cassette.

**NO TEXT (DAB only):** There is no text information in

**PUSH SELECT:** You tried to set the clock or timer during

**SET CLOCK:** You tried to select the timer when the clock

**SET TIMER:** You tried to select the timer when the Play

**STEP FULL:** You tried to program more than 25 tracks

TIME NG: The Play Timer or Rec Timer start and end

indicates

2 (two)

5 (five)

6 (six)

8 (eight)

0 (zero)

Α

В

D

G

O

Q

Z

! or |

**PUSH STOP:** You pressed PLAY MODE 22 during

loaded a disc that cannot be played.

broadcast in your country or region

**NO TAPE :** There is no tape in the tape deck.

**NOT IN USE:** You pressed an invalid button.

pressing I/() (power) 1 on the unit, then perform the

and  $1/\bigcirc$  (power)  $\boxed{1}$  at the same time.

stations, timer, and the clock, are deleted.

"CD POWER" and "ON" appear.

factory settings in Power Saving Mode.

default settings.

turn on the system

Messages

procedure.

nearest Sony dealer.

the received service.

timer operation.

Timer or Rec Timer is not set.

times are set to the same time.

**Display examples** 

Display

playback.

is not set.

turn on CD player power, repeat the procedure until

- CD-ROM **3** After "STANDBY" stops flashing, press I/(1) (power) • CD-R/CD-RW other than those recorded in music CD 1 while holding ■ (stop) 8 format or MP3 format conforming to ISO9660 Level
  - 1/Level 2, Joliet or multisession • CD-R/CD-RW recorded in multisession that have not ended by "closing the session"

**Precautions** 

Audio CD

when touched

Notes on discs

Discs that this system CAN play

• CD-R/CD-RW (audio data/MP3 files)

Discs that this system CANNOT play

- CD-R/CD-RW of poor recording quality, CD-R/CD-RW that have scratches or are dirty, or CD-R/CD-RW recorded with an incompatible recording device
- CD-R/CD-RW which is finalized incorrectly • Discs containing files other than MPEG 1 Audio Layer-3 (MP3) files
- Discs of non-standard shape (for example, heart, square, star)
- Laser Diode Properties
  Emission Duration: Con • Discs that have adhesive tape, paper, or sticker attached
- to them • Rental or used discs with attached seals where the glue extends beyond the seal
- Discs that have labels printed using ink that feels tacky

• Before playing, wipe the disc with a cleaning cloth from the center out to the edge

#### thinner, or commercially available cleaners or anti-Antenna: FM/DAB lead antenna static spray intended for vinyl LPs. FM tuner section: • Do not expose discs to direct sunlight or heat sources

#### such as hot air ducts, nor leave it in a car parked in direct sunlight.

• Do not clean discs with solvents, such as benzine

On safety • The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall socket, even if the unit itself has been turned off.

• Completely disconnect the power cord (mains lead)

- from the wall socket (mains) if it is not going to be used for an extended period of time. When unplugging the unit, always grip the plug. Never pull the cord itself. • Should any solid object or liquid get into the system,
- unplug the system, and have it checked by qualified personnel before operating it again • The AC power cord can be changed only by a qualified

## On placement

- Do not place the system in an inclined position or in locations that are extremely hot, cold, dusty, dirty, or humid or lacking adequate ventilation, or subject to vibration, direct sunlight or a bright light.
- Be careful when placing the unit or speakers on surfaces that have been specially treated (for example, with wax, oil, polish) as staining or discoloration of the surface may result. · If the system is brought directly from a cold to a warm
- location or is placed in a very damp room, moisture may condense on the lens inside the CD player, and cause the system to malfunction. In this situation, remove the disc, and leave the system turned on for

about a few hours until the moisture evaporates.

### On heat buildup

- Heat buildup on the unit during operation is normal
- and is not cause for alarm • Do not touch the cabinet if it has been used continuously at a high volume because the cabinet may
- · Do not obstruct the ventilation holes

#### On the speaker system

Cleaning the cabinet

thinner, benzine, or alcohol.

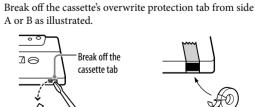
have become hot.

This speaker system is not magnetically shielded, and the picture on nearby TV sets may become magnetically distorted. In this situation, turn off the TV, wait 15 to 30 minutes, and turn it back on.

If there is no improvement, move the speakers far away

#### Clean this system with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as

To prevent a tape from being accidentally recorded over



To later reuse the tape for recording, cover the broken tab with adhesive tape.

#### About a tape longer than 90 minutes The use of the tape with more than 90 minutes of play time is not recommended except for long, continuous

recording or playback.

Cleaning the tape heads Use dry- or wet-type cleaning cassette (available separately) after every 10 hours of use, before you start an mportant recording, or after playing an old tape. Failure to clean the tape heads can cause degraded sound quality or an inability of the unit to record or play tapes. For

details, refer to the instructions of the cleaning cassette.

### Demagnetizing the tape heads

Use a demagnetizing cassette (available separately) after every 20 to 30 hours of use. Failure to demagnetize the tape heads can cause an increase in noise, a loss of high frequency sound, and an inability to completely erase tapes. For details, refer to the instructions of the demagnetizing cassette.

### pecifications

Amplifier section

DIN power output (rated): 40 + 40 W (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 50 + 50 W (6 ohms at 1 kHz, 10% Music power output (reference): 50 + 50 W (6 ohms at 1 kHz, 10% THD)

AUDIO IN: Sensitivity 250 mV, impedance 47 kilohms

Outputs

PHONES: Accepts headphones with an impedance of 8 ohms or more SPEAKER: Accepts impedance of 6 ohms

#### em: Compact disc and digital audio system

Laser Output\*: Less than 44.6µW

## \* This output is the value measurement at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

Frequency response: 20 Hz - 20 kHz (±2 dB) Wavelength: 780 - 790 nn

#### Tape deck section

Recording system: 4-track 2-channel, stereo Frequency response: 50 – 13,000 Hz (±3 dB), using Sony TYPE I cassettes Wow and flutter: ±0.15% W. Peak (IEC)

#### 0.1% W. RMS (NAB) ±0.2% W. Peak (DIN)

Tuner section FM/DAB stereo

Tuning range: 87.5 – 108.0 MHz DAB tuner section: Frequency range Band-III: 174.928 (5A) - 239.200 (13F) MHz

#### \* For details, see "DAB frequency table" below DAB frequency table (Band-III)

_				
	Frequency	Label	Frequency	Label
	174.928 MHz	5A	209.936 MHz	10A
	176.640 MHz	5B	211.648 MHz	10B
	178.352 MHz	5C	213.360 MHz	10C
	180.064 MHz	5D	215.072 MHz	10D
	181.936 MHz	6A	216.928 MHz	11A
	183.648 MHz	6B	218.640 MHz	11B
	185.360 MHz	6C	220.352 MHz	11C
	187.072 MHz	6D	222.064 MHz	11D
	188.928 MHz	7A	223.936 MHz	12A
	190.640 MHz	7B	225.648 MHz	12B
	192.352 MHz	7C	227.360 MHz	12C
	194.064 MHz	7D	229.072 MHz	12D
	195.936 MHz	8A	230.784 MHz	13A
	197.648 MHz	8B	232.496 MHz	13B
	199.360 MHz	8C	234.208 MHz	13C
	201.072 MHz	8D	235.776 MHz	13D
	202.928 MHz	9A	237.488 MHz	13E
	204.640 MHz	9B	239.200 MHz	13F
_	206.352 MHz	9C		
_				

208.064 MHz

#### \* Frequencies are displayed to two decimal places on this system

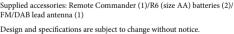
Speaker system: 2-way, bass-reflex type

Mass (excl. speakers): Approx. 4.3 kg

Woofer: 12 cm dia., cone type Tweeter: 4 cm dia., cone typ

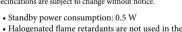
#### Nominal impedance: 6 ohms Dimensions (w/h/d): Approx. 163 × 280 × 220 mm Mass: Approx. 2.3 kg net per speaker

Power requirements: 220 – 240 V AC, 50/60 Hz Power consumption: 40 watts Dimensions (w/h/d) (excl. speakers): Approx.  $180 \times 280 \times 331$  mm



Design and specifications are subject to change without notice. • Standby power consumption: 0.5 W

certain printed wiring boards.



Lead-free solder is used for soldering certain parts.

Halogenated flame retardants are not used in cabinets